

PATENT COOPERATION TREATY

PCT

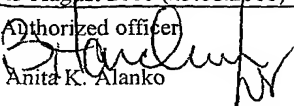
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 06 OCT 2006

WIPO

PCT

Applicant's or agent's file reference H0006253-PCT	FOR FURTHER ACTION		See Form PCT/IPEA/416																								
International application No. PCT/US04/31288	International filing date (day/month/year) 24 September 2004 (24.09.2004)	Priority date (day/month/year) 25 September 2003 (25.09.2003)																									
International Patent Classification (IPC) or national classification and IPC IPC: C23C 14/56(2006.01);B08B 3/08(2006.01) USPC: 216/52,83,100,106,107;134/2,3;451/41																											
Applicant HONEYWELL INTERNATIONAL INC.																											
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>2</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> (sent to the applicant and to the International Bureau) a total of ___ sheets, as follows:</p> <p style="margin-left: 40px;"><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p style="margin-left: 40px;"><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>																											
<p>4. This report contains indications relating to the following items:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 10%;"><input checked="" type="checkbox"/></td> <td style="width: 20%;">Box No. I</td> <td>Basis of the report</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table>				<input checked="" type="checkbox"/>	Box No. I	Basis of the report	<input type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input type="checkbox"/>	Box No. VIII	Certain observations on the international application
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Date of submission of the demand 22 April 2005 (22.04.2005)		Date of completion of this report 23 August 2006 (23.08.2006)																									
Name and mailing address of the IPEA/ US Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201		Authorized officer  Anita K. Alanko Telephone No. 571-272-1700																									

Form PCT/IPEA/409 (cover sheet)(April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/US04/31288

Box No. I Basis of the report

1. With regard to the language, this report is based on:

- ☒ the international application in the language in which it was filed.
- ☐ a translation of the international application into English, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4(a))
 - ☐ international preliminary examination (under Rules 55.2(a) and/or 55.3(a))

2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

- ☒ the international application as originally filed/furnished
- ☒ the description:
pages 1-13 as originally filed/furnished
pages* NONE received by this Authority on _____
pages* NONE received by this Authority on _____
- ☒ the claims:
pages 14-20 as originally filed/furnished
pages* NONE as amended (together with any statement) under Article 19
pages* NONE received by this Authority on _____
pages* NONE received by this Authority on _____
- ☒ the drawings:
pages 1/3-3/3 as originally filed/furnished
pages* NONE received by this Authority on _____
pages* NONE received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to the sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/US04/31288**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)	Claims <u>4-27</u>	YES
	Claims <u>1-3</u>	NO
Inventive Step (IS)	Claims <u>6, 7, 11-13, 15-27</u>	YES
	Claims <u>1-5, 8-10, 14</u>	NO
Industrial Applicability (IA)	Claims <u>1-27</u>	YES
	Claims <u>NONE</u>	NO

2. Citations and Explanations (Rule 70.7)

Claim 1 lacks novelty under PCT Article 33(2) as being anticipated by US-20020033381 A1.

US 20020033381 A1 discloses a used PVD component refurbishing method (see abstract, [0001]-[0004], [0010]-[0033], [0050]-[0055], [0059]-[0071], [0083], claims and figures) comprising:

providing a used PVD component having a layer deposited on a component surface (see [0004]);
first etching the deposited layer using a first acid-comprising etchant (see [0051]);
after the first etching, entraining abrasive particles in a flow of gas, impinging the particles on the etched layer, and abrading the etched layer (see [0054]); and
after the abrading, second etching the abraded layer using a second acid-comprising etchant (see [0059]).

Claims 2-5 and 8 lack an inventive step under PCT Article 33(3) as being obvious over US-20020033381 A1 in view of EP 1178133 A. D2

Claims 2 and 3 attempt to define the subjected matter by a result to be achieved, rather than how the effect is to be achieved, and as such do not distinguish the claimed invention.

The additional features of claims 4, 5 and 8 have already been employed in a used PVD component refurbishing method (see EP 1178133 paragraphs 1-4, 16, 19-22, 27, claims and figures). It would therefore be obvious to the person skilled in the art, to apply these features to a used PVD component refurbishing method according to US 20020033381 A1, thereby arriving at a method according to any of claims 4, 5 and 8.

Claims 9-10 and 14 lack an inventive step under PCT Article 33(3) as being obvious over US-20020033381 A1 in view of US 5565058. D3

The additional features of claims 9-10 and 14 have already been employed in a used PVD component refurbishing method (see US 5565058 abstract, col.3, lines 1-5, col.4, lines 4-6). It would therefore be obvious to the person skilled in the art, to apply these features to a used PVD component refurbishing method according to US 20020033381 A1, thereby arriving at a method according to any of claims 10 and 14.

Claims 6, 7, 11-13 and 15-27 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the additional features cited in claims 6, 7, 11-13 and 15-27.

Claims 1-27 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

----- NEW CITATIONS -----